

Vanderregt

1642

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**RAW SEQUENCE LISTING
PATENT APPLICATION US/09/027,777A**

DATE: 11/02/98
TIME: 11:50:44

INPUT SET: S29586.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/027,777ADATE: 11/02/98
TIME: 11:50:45**INPUT SET: S29586.raw**

47 (ix) TELECOMMUNICATION INFORMATION:
48 (A) TELEPHONE: (202) 638-5000
49 (B) TELEFAX: (202) 368-4810
50
51
52 (2) INFORMATION FOR SEQ ID NO:1:
53
54 (i) SEQUENCE CHARACTERISTICS:
55 (A) LENGTH: 17 amino acids
56 (B) TYPE: amino acid
57 (C) STRANDEDNESS:
58 (D) TOPOLOGY: linear
59
60 (ii) MOLECULE TYPE: peptide
61
62
63
64
65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
66
67 Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly
68 1 5 10 15
69
70 Cys
71
72
73 (2) INFORMATION FOR SEQ ID NO:2:
74
75 (i) SEQUENCE CHARACTERISTICS:
76 (A) LENGTH: 15 amino acids
77 (B) TYPE: amino acid
78 (C) STRANDEDNESS:
79 (D) TOPOLOGY: linear
80
81 (ii) MOLECULE TYPE: peptide
82
83
84
85
86 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
87
88 Leu Arg Ala Leu Leu Thr Ala Pro Arg Ser Leu Arg Arg Ser Ser
89 1 5 10 15
90
91 (2) INFORMATION FOR SEQ ID NO:3:
92
93 (i) SEQUENCE CHARACTERISTICS:
94 (A) LENGTH: 5 amino acids
95 (B) TYPE: amino acid
96 (C) STRANDEDNESS:
97 (D) TOPOLOGY: linear
98
99 (ii) MOLECULE TYPE: peptide

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/027,777ADATE: 11/02/98
TIME: 11:50:46

INPUT SET: S29586.raw

100
101
102
103
104 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
105
106 Asn Ser Phe Arg Tyr
107 1 5
108

109 (2) INFORMATION FOR SEQ ID NO:4:

110
111 (i) SEQUENCE CHARACTERISTICS:
112 (A) LENGTH: 19 amino acids
113 (B) TYPE: amino acid
114 (C) STRANDEDNESS:
115 (D) TOPOLOGY: linear

116
117 (ii) MOLECULE TYPE: peptide

118
119
120 (ix) FEATURE:
121 (A) NAME/KEY: Peptide
122 (B) LOCATION: 1
123 (D) OTHER INFORMATION: /note= "Xaa is an amino acid chain
124 having chain length 0 - 15 amino acids."

125
126 (ix) FEATURE:
127 (A) NAME/KEY: Peptide
128 (B) LOCATION: 17 do you mean "19"?
129 (D) OTHER INFORMATION: /note= "Xaa is an amino acid chain
130 of 0 - 5 amino acids."

131
132 (ix) FEATURE:
133 (A) NAME/KEY: Cross-links
134 (B) LOCATION: 2..18

135
136
137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

138
139 Xaa Cys Phe Gly Gly Arg Met Asp Arg Ile Gly Ala Gln Ser Gly Leu
140 1 5 10 15
141
142 Gly Cys Xaa

143
144 (2) INFORMATION FOR SEQ ID NO:5:

145
146
147 (i) SEQUENCE CHARACTERISTICS:
148 (A) LENGTH: 32 amino acids
149 (B) TYPE: amino acid
150 (C) STRANDEDNESS:
151 (D) TOPOLOGY: linear

Please follow instructions
given by item 6 for any
subsequent, similar
amino acid
sequences.

See item 6 on Error Summary
sheet

do you mean "19"?

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/027,777ADATE: 11/02/98
TIME: 11:50:47

INPUT SET: S29586.raw

153 (ii) MOLECULE TYPE: peptide
154
155
156 (ix) FEATURE:
157 (A) NAME/KEY: Cross-links
158 (B) LOCATION: 11..27
159
160
161 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
162
163 Thr Ala Pro Arg Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met
164 1 5 10 15
165
166 Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr
167 20 25 30
168
169
170 (2) INFORMATION FOR SEQ ID NO:6:
171
172 (i) SEQUENCE CHARACTERISTICS:
173 (A) LENGTH: 14 amino acids
174 (B) TYPE: amino acid
175 (C) STRANDEDNESS:
176 (D) TOPOLOGY: linear
177
178 (ii) MOLECULE TYPE: peptide
179
180
181 (ix) FEATURE:
182 (A) NAME/KEY: Modified-site
183 (B) LOCATION: 1
184 (D) OTHER INFORMATION: /product= "Modified by a Boc protecting group and
185 tBu protecting group"
186
187 (ix) FEATURE:
188 (A) NAME/KEY: Modified-site
189 (B) LOCATION: 4
190 (D) OTHER INFORMATION: /note= "Modified by a tBu protecting group and a P,"
191 protecting group" *written 3 m Env summary sheet*
192
193 (ix) FEATURE:
194 (A) NAME/KEY: Modified-site
195 (B) LOCATION: 7
196 (D) OTHER INFORMATION: /note= "Modified by a Pbf protecting group"
197
198 (ix) FEATURE:
199 (A) NAME/KEY: Modified-site
200 (B) LOCATION: 8
201 (D) OTHER INFORMATION: /note= "Modified by a Pbf protecting group"
202
203 (ix) FEATURE:
204 (A) NAME/KEY: Modified-site
205 (B) LOCATION: 9

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/027,777ADATE: 11/02/98
TIME: 11:50:48*INPUT SET: S29586.raw*

206 (D) OTHER INFORMATION: /note= "Modified by a tBu protecting group"
207
208 (ix) FEATURE:
209 (A) NAME/KEY: Modified-site
210 (B) LOCATION: 10
211 (D) OTHER INFORMATION: /note= "Modified by a tBu protecting group"
212
213 (ix) FEATURE:
214 (A) NAME/KEY: Modified-site
215 (B) LOCATION: 11
216 (D) OTHER INFORMATION: /note= "Modified by a Acm protecting group"
217
218
219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
220
221 Thr Ala Pro Arg Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly
222 1 5 10
223
224 (2) INFORMATION FOR SEQ ID NO:7:
225
226 (i) SEQUENCE CHARACTERISTICS:
227 (A) LENGTH: 12 amino acids
228 (B) TYPE: amino acid
229 (C) STRANDEDNESS:
230 (D) TOPOLOGY: linear
231
232 (ii) MOLECULE TYPE: peptide
233
234
235 (ix) FEATURE:
236 (A) NAME/KEY: Modified-site
237 (B) LOCATION: 1
238 (D) OTHER INFORMATION: /product= "Modified by a Fmoc protecting group and
239 Pbf protecting group"
240
241 (ix) FEATURE:
242 (A) NAME/KEY: Modified-site
243 (B) LOCATION: 3
244 (D) OTHER INFORMATION: /product= "Modified by a OtBu protecting group"
245
246 (ix) FEATURE:
247 (A) NAME/KEY: Modified-site
248 (B) LOCATION: 4
249 (D) OTHER INFORMATION: /product= "Modified by a Pbf protecting group"
250
251 (ix) FEATURE:
252 (A) NAME/KEY: Modified-site
253 (B) LOCATION: 8
254 (D) OTHER INFORMATION: /product= "Modified by a Trt protecting group"
255
256 (ix) FEATURE:
257 (A) NAME/KEY: Modified-site
258 (B) LOCATION: 9

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/027,777A

DATE: 11/02/98
TIME: 11:50:49

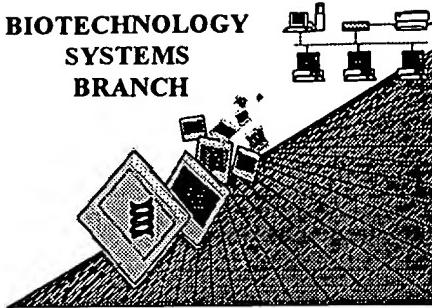
INPUT SET: S29586.raw

Line

Error

Original Text

BIOTECHNOLOGY
SYSTEMS
BRANCH



Notice of Availability of Checker Program

Applicant Aid for Biotechnology Computer Readable Form (CRF) Sequence Listing Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (Sequence Rules: 37CRF 1.821 through 1.825).

Final rules were published in the *Federal Register* (55 FR18230) on May 1, 1990, and in the PTO *Official Gazette* (1114 Off.Gaz.PatOffice 29) on May 15, 1990.

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software is available via computer downloading, details are below. Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the PTO *Official Gazette*.

The software can be accessed/requested from the following locations:

- 1) Dial-up access through the Internet. Location is <ftp://ftp.uspto.gov>
The software is in current directory: pub/checker/
Download all the files. Cost: Free-of-charge
- 3) For diskette copies, mail to: U.S.P.T.O., OEIP, CRYSTAL PARK 3, SUITE 441
WASHINGTON DC 20231

COST FOR DISKETTE IS \$ 25.00

METHOD OF PAYMENT:

Check payable to Commissioner of Patents and Trademarks
VISA/ Mastercard/ Charge- Charges can be faxed to 703-306-2737
PTO Deposit Account

For Further Information, Contact: Arti Shah at 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/027,779A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Amines The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
All text must be visible on page.
- 4 Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and uses spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) 4 contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.
- 7 Wrong Designation Sequence(s) contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)
- 8 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(I) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 Use of N's or Xaa's (NEW RULES) Use of N's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
- 11 Use of <213>Organism (NEW RULES) Sequence(s) are missing this mandatory field or its response.
- 12 Use of <220>Feature (NEW RULES) Sequence(s) are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)
(Sec. 1.823 of new Sequence Rules)
- 13 Wrong Format File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.